

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P459264

Luminaire Tested: **GLAN-SA7B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36839 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

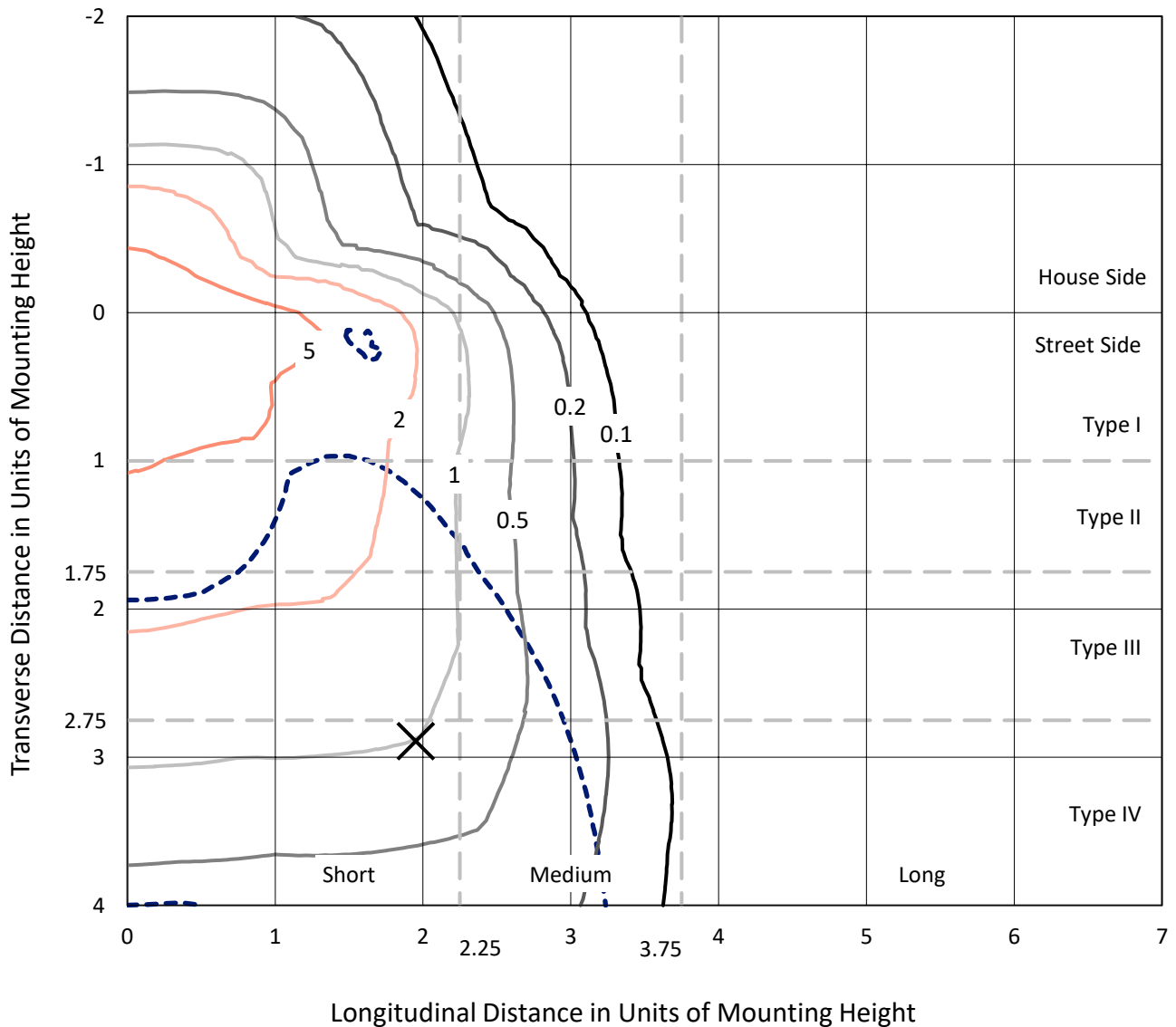
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

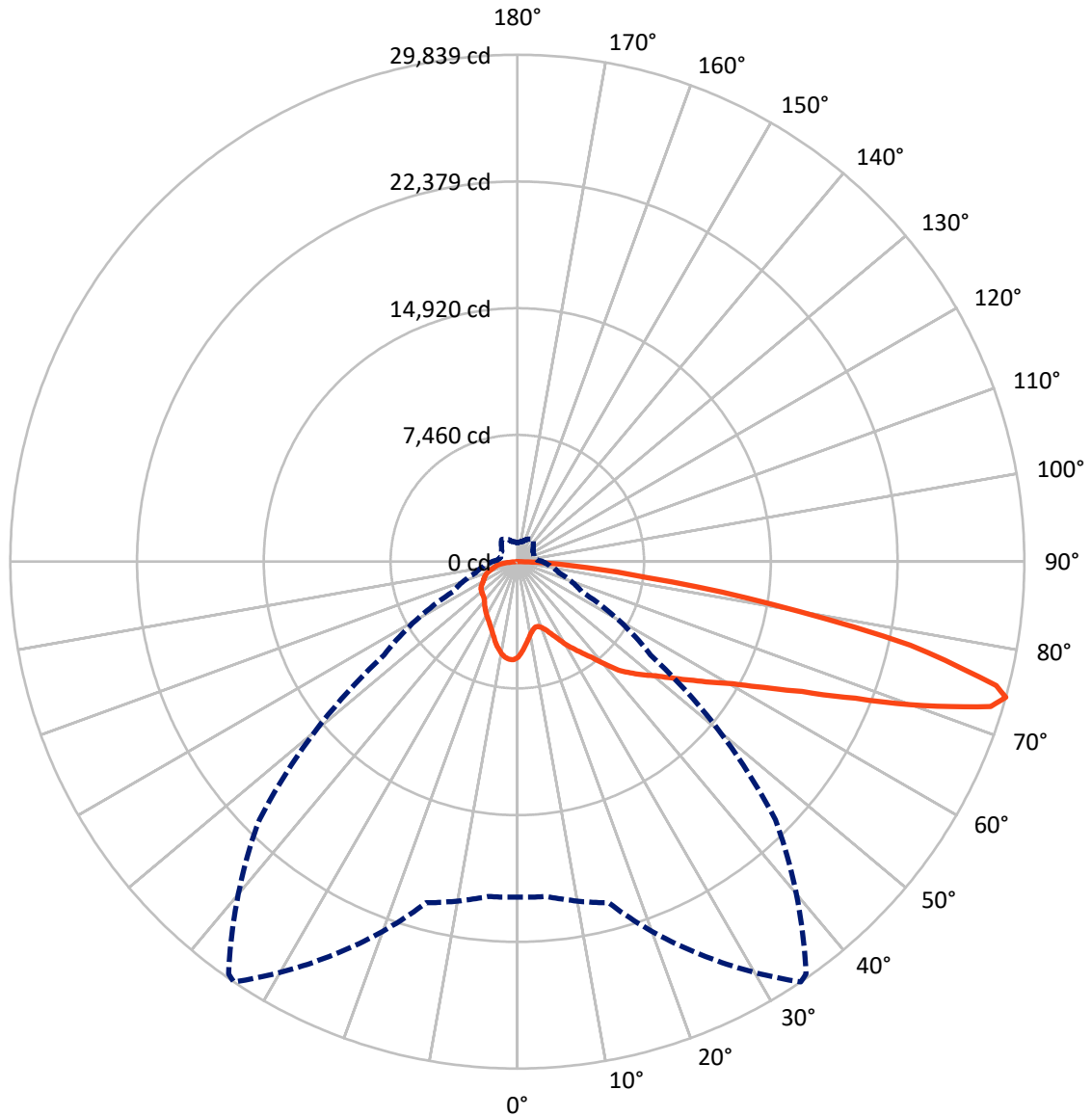
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7839.6 | 0.0 | 7839.6 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 28999.4 | 0.0 | 28999.4 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 36839.0 | 0.0 | 36839.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 511.5 | 1.4 |
| 10°-20° | 1400.3 | 3.8 |
| 20°-30° | 2308.7 | 6.3 |
| 30°-40° | 3458.2 | 9.4 |
| 40°-50° | 5027.3 | 13.6 |
| 50°-60° | 7021.9 | 19.1 |
| 60°-70° | 8791.1 | 23.9 |
| 70°-80° | 7269.5 | 19.7 |
| 80°-90° | 1050.4 | 2.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 36839.0 | 100.0 |
| 0°-180° | 36839.0 | 100.0 |

Coefficient of Utilization



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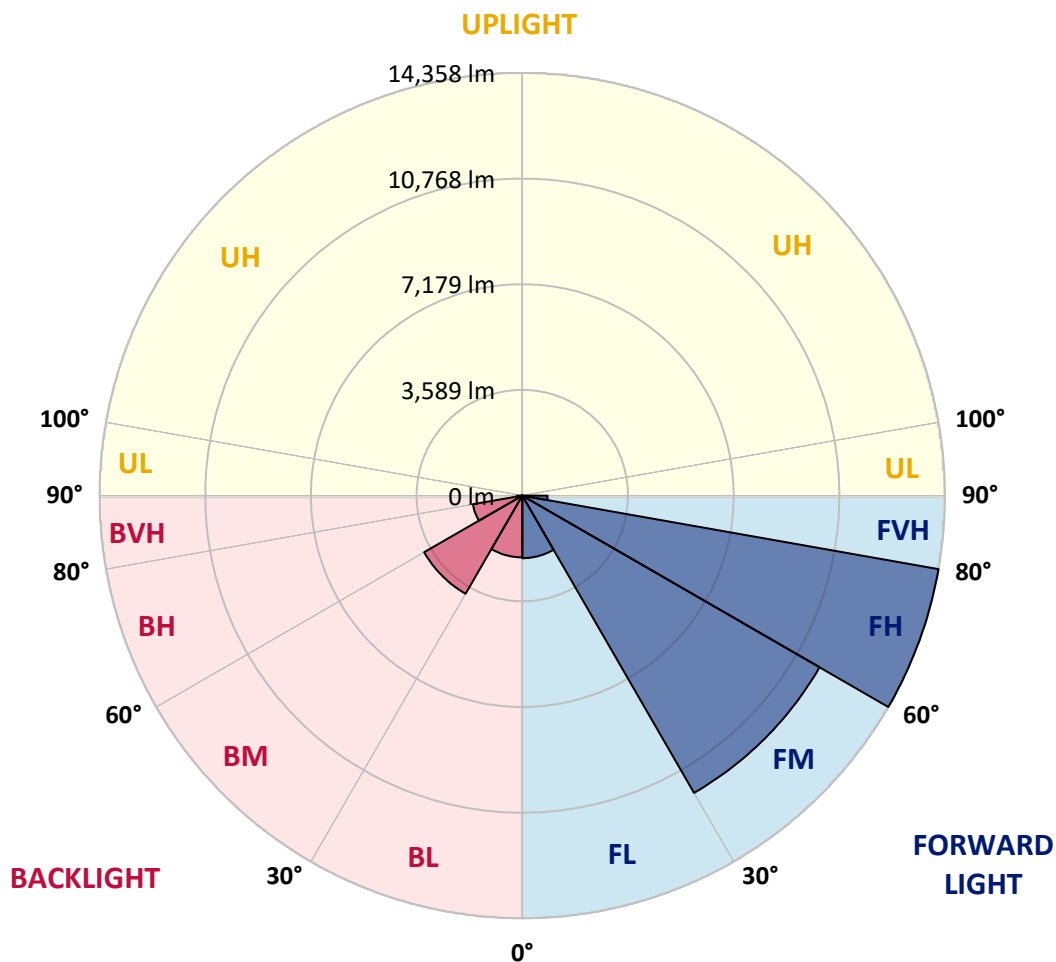
CATALOG NUMBER: GLAN-SA7B-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2123.6 | 5.8 | | | |
| FM | (30°-60°) | 11657.4 | 31.6 | | | |
| FH | (60°-80°) | 14357.9 | 39.0 | | | G5 |
| FVH | (80°-90°) | 860.5 | 2.3 | | | G5 |
| BL | (0°-30°) | 2097.0 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 3850.1 | 10.5 | B3/5000 | | |
| BH | (60°-80°) | 1702.7 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 189.9 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 |
| 2.5° | 5198.0 | 5224.6 | 5238.9 | 5289.9 | 5302.1 | 5318.5 | 5361.3 | 5418.5 | 5491.9 | 5557.2 | 5614.4 |
| 5° | 4765.4 | 4806.2 | 4830.7 | 4875.6 | 4963.4 | 4971.5 | 5085.8 | 5216.4 | 5365.4 | 5504.2 | 5618.5 |
| 7.5° | 4355.2 | 4400.1 | 4420.5 | 4502.1 | 4618.4 | 4636.8 | 4804.2 | 5010.3 | 5259.3 | 5469.5 | 5645.0 |
| 10° | 4047.0 | 4069.5 | 4114.4 | 4175.6 | 4314.4 | 4326.6 | 4545.0 | 4820.5 | 5142.9 | 5453.2 | 5689.9 |
| 12.5° | 3879.7 | 3891.9 | 3902.1 | 3967.4 | 4104.2 | 4122.5 | 4351.1 | 4663.3 | 5051.1 | 5465.4 | 5763.4 |
| 15° | 3904.1 | 3908.2 | 3863.3 | 3875.6 | 3985.8 | 4012.3 | 4238.8 | 4559.3 | 4994.0 | 5496.0 | 5873.6 |
| 17.5° | 4110.3 | 4096.0 | 3985.8 | 3928.6 | 4006.2 | 4018.4 | 4216.4 | 4518.4 | 4967.4 | 5553.2 | 5987.9 |
| 20° | 4434.8 | 4414.4 | 4224.6 | 4098.0 | 4142.9 | 4153.1 | 4289.9 | 4549.1 | 4994.0 | 5647.0 | 6165.4 |
| 22.5° | 4838.9 | 4830.7 | 4542.9 | 4389.9 | 4387.8 | 4387.8 | 4459.3 | 4659.3 | 5073.6 | 5775.6 | 6351.1 |
| 25° | 5404.2 | 5361.3 | 4985.8 | 4787.8 | 4732.7 | 4728.7 | 4720.5 | 4840.9 | 5175.6 | 5912.3 | 6571.5 |
| 27.5° | 5983.8 | 5910.3 | 5575.6 | 5271.5 | 5153.2 | 5138.9 | 5085.8 | 5098.0 | 5306.2 | 6067.5 | 6822.6 |
| 30° | 6504.2 | 6457.3 | 6143.0 | 5806.2 | 5665.4 | 5632.8 | 5485.8 | 5418.5 | 5524.6 | 6347.0 | 7222.6 |
| 32.5° | 6902.2 | 6873.6 | 6628.7 | 6322.6 | 6114.4 | 6108.3 | 5894.0 | 5838.9 | 5865.4 | 6685.8 | 7679.7 |
| 35° | 7224.6 | 7234.8 | 7110.3 | 6845.0 | 6606.2 | 6571.5 | 6428.7 | 6359.3 | 6281.7 | 7175.6 | 8255.2 |
| 37.5° | 7665.4 | 7687.9 | 7679.7 | 7451.1 | 7159.3 | 7167.5 | 7134.8 | 7020.5 | 6814.4 | 7722.6 | 8894.0 |
| 40° | 8151.2 | 8167.5 | 8165.4 | 8077.7 | 7924.6 | 7932.8 | 7920.5 | 7789.9 | 7481.8 | 8418.5 | 9604.2 |
| 42.5° | 8822.6 | 8745.0 | 8543.0 | 8630.8 | 8720.6 | 8759.3 | 8843.0 | 8718.5 | 8296.1 | 9161.4 | 10271.6 |
| 45° | 9573.6 | 9426.7 | 8969.5 | 9010.4 | 9343.0 | 9416.5 | 9877.7 | 9706.3 | 9179.8 | 10014.5 | 11057.3 |
| 47.5° | 10047.1 | 9902.2 | 9516.5 | 9508.3 | 9949.2 | 10020.6 | 10836.9 | 10773.7 | 9983.8 | 10934.9 | 12016.5 |
| 50° | 10469.6 | 10449.2 | 10014.5 | 10118.5 | 10549.2 | 10655.3 | 11881.8 | 11822.7 | 10785.9 | 12020.6 | 13061.4 |
| 52.5° | 11096.1 | 10930.8 | 10583.9 | 10798.1 | 11367.5 | 11506.3 | 12918.6 | 12745.1 | 11522.6 | 12979.8 | 14075.8 |
| 55° | 11377.7 | 11339.0 | 11318.6 | 11504.3 | 12285.9 | 12385.9 | 13926.8 | 13528.8 | 12151.2 | 13792.1 | 14847.2 |
| 57.5° | 12130.8 | 12059.4 | 12261.4 | 12388.0 | 13367.6 | 13520.6 | 14979.8 | 14347.2 | 12702.3 | 14437.0 | 15222.7 |
| 60° | 13106.3 | 13067.6 | 13253.3 | 13481.9 | 14575.8 | 14808.4 | 16179.9 | 15045.2 | 13145.1 | 14761.5 | 15016.6 |
| 62.5° | 14563.5 | 14559.4 | 14524.7 | 15014.5 | 16288.0 | 16502.3 | 17557.4 | 15724.8 | 13214.5 | 14518.6 | 13951.3 |
| 65° | 16653.3 | 16579.9 | 16277.8 | 16812.5 | 18418.7 | 18669.7 | 18992.2 | 16104.4 | 12796.1 | 13271.7 | 11747.1 |
| 67.5° | 18839.1 | 18835.0 | 18590.1 | 19284.0 | 21477.9 | 21737.1 | 20786.1 | 16020.7 | 11634.9 | 10751.2 | 8343.0 |
| 70° | 20651.4 | 20563.6 | 20875.9 | 22724.9 | 25386.2 | 25686.2 | 22355.5 | 15035.0 | 9267.5 | 7100.1 | 4957.2 |
| 72.5° | 21086.1 | 21090.2 | 21739.2 | 25378.0 | 29139.3 | 29186.2 | 22920.8 | 12185.9 | 6202.1 | 3916.4 | 2479.6 |
| 74° | 19747.3 | 19782.0 | 20788.1 | 25510.6 | 29839.3 | 29627.0 | 21475.9 | 9577.7 | 4193.9 | 2557.2 | 1787.8 |
| 75° | 18024.8 | 17806.4 | 19261.6 | 24627.0 | 29112.7 | 28884.2 | 19784.0 | 7685.8 | 3200.1 | 2042.9 | 1565.3 |
| 77.5° | 9636.9 | 9859.4 | 12104.3 | 18377.9 | 23651.4 | 23388.2 | 13414.5 | 3685.8 | 1728.6 | 1422.5 | 1126.6 |
| 80° | 3430.7 | 3783.7 | 5318.5 | 9616.5 | 15163.5 | 15245.2 | 6402.2 | 1689.8 | 1216.3 | 1049.0 | 795.9 |
| 82.5° | 1400.0 | 1438.8 | 2283.7 | 4267.4 | 7700.1 | 7773.6 | 2614.3 | 1004.1 | 869.4 | 722.5 | 475.5 |
| 85° | 546.9 | 563.3 | 1010.2 | 1918.4 | 3285.8 | 3500.1 | 904.1 | 530.6 | 534.7 | 414.3 | 242.9 |
| 87.5° | 183.7 | 208.2 | 414.3 | 638.8 | 1116.3 | 1093.9 | 263.3 | 157.1 | 191.8 | 179.6 | 75.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GLAN-SA7B-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 | 5624.6 |
| 2.5° | 5643.0 | 5681.7 | 5708.3 | 5736.8 | 5763.4 | 5771.5 | 5765.4 | 5783.8 | 5785.8 | 5787.9 | 5789.9 |
| 5° | 5675.6 | 5728.7 | 5779.7 | 5808.3 | 5820.5 | 5810.3 | 5775.6 | 5757.2 | 5740.9 | 5728.7 | 5732.8 |
| 7.5° | 5720.5 | 5796.0 | 5843.0 | 5855.2 | 5822.5 | 5775.6 | 5689.9 | 5622.5 | 5579.7 | 5551.1 | 5549.1 |
| 10° | 5789.9 | 5863.4 | 5902.1 | 5867.4 | 5777.7 | 5663.4 | 5528.7 | 5402.1 | 5306.2 | 5277.6 | 5275.6 |
| 12.5° | 5877.7 | 5961.3 | 5959.3 | 5857.2 | 5700.1 | 5496.0 | 5277.6 | 5130.7 | 5000.1 | 4934.8 | 4961.3 |
| 15° | 5991.9 | 6055.2 | 5996.0 | 5812.3 | 5563.4 | 5283.8 | 5014.4 | 4814.4 | 4667.4 | 4598.0 | 4602.1 |
| 17.5° | 6124.6 | 6179.7 | 6022.6 | 5732.8 | 5371.5 | 5012.3 | 4700.1 | 4510.3 | 4394.0 | 4342.9 | 4338.9 |
| 20° | 6289.9 | 6306.2 | 6022.6 | 5594.0 | 5124.6 | 4696.0 | 4398.0 | 4265.4 | 4200.1 | 4173.5 | 4181.7 |
| 22.5° | 6467.5 | 6434.8 | 5989.9 | 5398.1 | 4800.1 | 4365.4 | 4165.4 | 4106.2 | 4073.5 | 4069.5 | 4073.5 |
| 25° | 6667.5 | 6575.6 | 5922.6 | 5132.7 | 4461.3 | 4079.7 | 3963.3 | 3973.5 | 3979.7 | 3979.7 | 3993.9 |
| 27.5° | 6912.4 | 6728.7 | 5810.3 | 4798.0 | 4065.4 | 3814.4 | 3781.7 | 3853.1 | 3885.8 | 3891.9 | 3902.1 |
| 30° | 7234.8 | 6896.0 | 5624.6 | 4379.7 | 3728.6 | 3575.6 | 3632.7 | 3728.6 | 3765.4 | 3787.8 | 3783.7 |
| 32.5° | 7618.5 | 7079.7 | 5373.6 | 3961.3 | 3457.2 | 3408.2 | 3477.6 | 3575.6 | 3616.4 | 3628.6 | 3612.3 |
| 35° | 8069.5 | 7287.9 | 5042.9 | 3569.4 | 3220.5 | 3249.0 | 3330.7 | 3361.3 | 3398.0 | 3398.0 | 3406.2 |
| 37.5° | 8555.2 | 7455.2 | 4638.9 | 3210.3 | 3036.8 | 3140.9 | 3200.1 | 3171.5 | 3155.2 | 3134.7 | 3145.0 |
| 40° | 9049.1 | 7579.7 | 4114.4 | 2855.2 | 2853.1 | 3028.6 | 3045.0 | 2963.3 | 2898.0 | 2877.6 | 2867.4 |
| 42.5° | 9479.8 | 7657.3 | 3640.9 | 2579.6 | 2679.6 | 2918.4 | 2930.7 | 2800.0 | 2696.0 | 2634.7 | 2614.3 |
| 45° | 9987.9 | 7747.1 | 3177.6 | 2351.1 | 2518.4 | 2830.7 | 2861.3 | 2685.8 | 2532.7 | 2404.1 | 2371.5 |
| 47.5° | 10683.9 | 7951.2 | 2812.3 | 2173.5 | 2402.1 | 2775.6 | 2818.4 | 2591.9 | 2389.8 | 2222.5 | 2196.0 |
| 50° | 11469.6 | 8230.8 | 2528.6 | 2053.1 | 2312.3 | 2726.6 | 2779.6 | 2496.0 | 2257.2 | 2071.5 | 2051.1 |
| 52.5° | 12190.0 | 8381.8 | 2283.7 | 1944.9 | 2224.5 | 2636.8 | 2728.6 | 2426.6 | 2126.6 | 1920.4 | 1902.1 |
| 55° | 12583.9 | 8136.9 | 2042.9 | 1838.8 | 2104.1 | 2520.5 | 2657.2 | 2330.7 | 2000.0 | 1840.8 | 1814.3 |
| 57.5° | 12637.0 | 7630.7 | 1824.5 | 1724.5 | 1977.6 | 2377.6 | 2524.5 | 2214.3 | 1918.4 | 1785.7 | 1763.3 |
| 60° | 12226.7 | 6875.6 | 1655.1 | 1630.6 | 1849.0 | 2216.4 | 2375.6 | 2112.3 | 1834.7 | 1724.5 | 1702.1 |
| 62.5° | 11206.3 | 6055.2 | 1536.8 | 1544.9 | 1718.4 | 2047.0 | 2265.3 | 2014.3 | 1755.1 | 1657.2 | 1636.8 |
| 65° | 9451.2 | 4998.0 | 1422.5 | 1457.2 | 1602.1 | 1914.3 | 2165.3 | 1932.7 | 1675.5 | 1606.2 | 1587.8 |
| 67.5° | 6565.4 | 3608.2 | 1328.6 | 1365.3 | 1491.9 | 1779.6 | 2049.0 | 1844.9 | 1585.7 | 1549.0 | 1520.4 |
| 70° | 3634.8 | 2220.4 | 1218.4 | 1261.2 | 1377.6 | 1628.6 | 1918.4 | 1712.3 | 1455.1 | 1438.8 | 1398.0 |
| 72.5° | 1910.2 | 1414.3 | 1093.9 | 1140.8 | 1222.5 | 1434.7 | 1718.4 | 1567.4 | 1326.6 | 1257.2 | 1204.1 |
| 74° | 1491.9 | 1159.2 | 1010.2 | 1059.2 | 1114.3 | 1320.4 | 1600.0 | 1463.3 | 1234.7 | 1153.1 | 1112.3 |
| 75° | 1300.0 | 1032.7 | 938.8 | 1002.1 | 1051.0 | 1242.9 | 1508.2 | 1389.8 | 1183.7 | 1106.1 | 1069.4 |
| 77.5° | 918.4 | 773.5 | 767.4 | 842.9 | 869.4 | 1089.8 | 1359.2 | 1265.3 | 1055.1 | 973.5 | 938.8 |
| 80° | 644.9 | 579.6 | 608.2 | 655.1 | 691.8 | 963.3 | 1261.2 | 1093.9 | 865.3 | 769.4 | 757.2 |
| 82.5° | 420.4 | 379.6 | 434.7 | 477.6 | 489.8 | 710.2 | 1018.4 | 830.6 | 630.6 | 512.3 | 475.5 |
| 85° | 193.9 | 189.8 | 249.0 | 242.9 | 240.8 | 346.9 | 604.1 | 485.7 | 363.3 | 271.4 | 255.1 |
| 87.5° | 49.0 | 46.9 | 61.2 | 51.0 | 61.2 | 53.1 | 55.1 | 14.3 | 2.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)